- b) 7 to 50 wt.% of at least one at least difunctional polyisocyanate having a molecular weight of 140 to 1,500,
- c) 0.5 to 20 wt.% of at least one low molecular weight at least difunctional alcohol and/or amine having a molecular weight of 32 to 500,
- d) 0.1 to 5 wt.% of at least one compound containing at least one alkoxysilane group and an isocyanate-reactive group and
- e) optionally a monofunctional compound containing an amino, alcohol or oxime group,

wherein the percentages are based on weight of the polyurethane and the equivalents of component d) are at least 75% of the total equivalents of components d) and e).

- 25. The polyurethane solution of Claim 23 wherein the polyurethane is the reaction product, in organic solution, of
- a) 47 to 88 wt.% of at least one at least difunctional polyol having a molecular weight of 500 to 16,000,
- b) 10 to 40 wt.% of at least one at least difunctional polyisocyanate having a molecular weight of 140 to 1,500,
- c) 0.8 to 17 wt.% of at least one low molecular weight at least difunctional alcohol and/or amine having a molecular weight of 32 to 500,
- d) 0.2 to 3.0 wt.% of a compound containing an alkoxysilane group and an isocyanate-reactive group and
- e) 0-0.5 wt.% of a monofunctional compound containing an amino, alcohol or oxime group,

wherein the percentages are based on weight of the polyurethane and the equivalents of component d) are at least 95% of the total equivalents of components d) and e).

- 26. The polyurethane solution of Claim 23 wherein at least 50 wt.% of component a) is at least one polycarbonate diol having a molecular weight of 900 to 2,500.
- 27. The polyurethane solution of Claim 23 wherein component a) contains 10 to 60 wt.% of at least one hydrophilic polyol and 23 to 50 wt.% of at least one Mo6652 -3-

non-hydrophilic polyol, wherein the percentages are based on the total solids content of the polyurethane, provided that the total amount of component a) is not more than 92 wt.% of the total solids content of the polyurethane.

- 28. The polyurethane solution of Claim 23 wherein at least 75 wt.% of component b) is isophorone diisocyanate.
- 29. The polyurethane solution of Claim 23 wherein they component b) comprises 2,4- and/or 2,6-diisocyanatotoluene and/or 4,4'-diisocyanatodiphenylmethane.
- 30. The polyurethane solution of Claim 23 wherein component b) comprises at least one diisocyanate containing allophanate groups.
- 31. The polyurethane solution of Claim 23 wherein 2 to 16 wt.% of component c) is a hydrophilic diffunctional compound containing salt groups.
- 32. The polyurethane solution of Claim 23 wherein component c) comprises a hydrophilic compound and component a) comprises a hydrophilic polyol.
- 33. The polyurethane solution of Claim 23 wherein component c) comprises a positive amount up to 2 wt.%, based on the total solids content of the polyurethane, of a diamino-functional compound containing alkoxysilane groups.
- 34. The polyurethane solution of Claim 23 wherein component c) comprises 0.1 to 1.5 wt.%, based on the total solids content of the polyurethane, of hydrazine hydrate, adipic acid dihydrazide and/or the reaction product of 2 moles propylene carbonate with 1 mole hydrazine.
- 35. The polyurethane solution of Claim 23 wherein component d) comprises 0.3 to 1.3 wt.%, based on the total solids content of the polyurethane, of a compound containing an isocyanate-reactive group and at least one alkoxysilane group.
- 36. The polyurethane solution of Claim 23 wherein component d) comprises a monoamino-functional reaction product containing aspartic acid ester structures of a monoamino-functional alkoxysilane with 0.5 to 1.1 equivalents of a maleic acid alkyl ester.
- 37. The polyurethane solution of Claim 23 wherein the theoretical content Mo6652 -4-

of $-Si-(O-)_3$ structural units is less than 1.2 wt.%, based on the total solids content of the polyurethane,.

- 38. The polyurethane solution of Claim 23 wherein component d) comprises 0.3 to 1.3 wt.%, based on the total solids content of the polyurethane, of a monoamino-functional alkoxysilane and component c) comprises 0.1 to 2.0 wt.%, based on the total solids content of the polyurethane, of a diamino-functional alkoxysilane, provided that the weight of terminal alkoxysilane groups is at least 50 wt.% of all the alkoxysilane groups incorporated.
- 39. A process for preparing the polyurethane solution of Claim 23 which comprises
- a) preparing an isocyanate-functional polyurethane in a one- or two-stage reaction from at least one polyol a), at least one difunctional polyisocyanate b), and at least one low molecular weight component c),
- b) subsequently reacting the product of step a) with at least one compound d) containing an alkoxysilane group and an isocyanate-reactive group and optionally a monofunctional component e) to obtain a high molecular weight polyurethane with alkoxysilane structural units which no longer contains free isocyanate groups, and
- c) adding an organic solvent either before, during or after step a) in an amount such that the resulting polyurethane solution with alkoxysilane end groups has a solids content of 9 to 65 wt.%.
 - 40. The process of Claim 39 which comprises
- a) reacting components a), b) and optionally c) in a one-stage reaction, optionally in the presence of suitable solvents, to obtain an isocyanate-functional high molecular weight polyurethane,
- b) achieving the desired viscosity and molecular weight by optionally adding a an additional amount of polyisocyanate b) and/or low molecular weight difunctional component c), and
- c) chain-stopping the reaction by adding a monoamino-functional compound d) containing an alkoxysilane group.
- 41. A paint, coating, sealant or adhesive compositions containing the Mo6652

polyurethane solution of Claim 23.

- 42. A plastic coated with the polyurethane solution of Claim 23.
- 43. A textile or leather coated with the polyurethane solution of Claim 23.
- 44. A textile coated with the polyurethane solution of Claim 23, wherein the coating is permeable to water vapor.--